Capstone Project : Forex Platform : Dr. Ram Narayan Yadav

1. Name of Project.
2. Project Description.
3. Project Scope.
4. Project Team Detail with Roles and Responsibility.
5. Technical detail of project.
    a. Language to be used for project.
    b. Database to be used for the project.
    c. Third party API Detail.
    d. Tools to be used.
6. Next deliverable.

Name of Project:

Data Analytics Platform

Project Description:

This platform will help visualize data in real time, execute with little latency, and analyze historical events. We are looking into two domains. One is Twitter stream analysis and the Second is the Stock Market. We will be creating a microservice for our project to achieve the above mentioned requirements.

Project Scope:

Analysis of the Twitter Stream for any current trending topic and update UI in Real time (span of a few seconds)

Analysis of the Stock Market to see the trend of the Security at that current time and analyse the trends in stock sale , highest selling stock and other factors.

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Project Team Detail with Roles and Responsibility:

Abhinav Ralhan, +91 9560385270, abhinav.ralhan@st.niituniversity.in : Establish data sources, ingest data by configuring Apache Kafka.

Anirudh Rao, +91 9930769077 , anirudh.k.rao@st.niituniversity.in : Flask/Javascript to create visualisations and UI.

Gaurav Malhotra, +91 9602456874 ,gaurav.malhotra@st.niituniversity.in : Work with Cassandra for querying time series data.

Ojasvi Bhalerao, ,+91 9618274648, ojasvi.bhalerao@st.niituniversity.in : Configuring topologies in Storm using Spout-Bolts.

Prashanth Kurella, +91 8290765369, prashanth.kurella@st.niituniversity.in : tweet & stock market data parsing , analysis on bolts.

Technical detail of project:

a. Language to be used for project: Java Core and Advance,Javascript

b. Database to be used for the project: Cassandra

c. Third party API Detail: Apache Storm Python APIs if required

d. Tools to be used: Apache Storm, Apache Kafka, Cassandra,Hadoop,Hive and Mr Job.

Next deliverable:

Understand concepts of Apache Kafka, Storm, Cassandra, Hive.

Establish data sources, ingest data by configuring Apache Kafka and creating clusters.